Performance Data Sheet

RKA5512EXA

General Information

Model	RKA5512EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4310	4040					
	Watts	507	556					
	Amps	4.12	4.56					
	Lb/h	55.4	54.2					
-10	Btu/h	4760	4470	4190				
	Watts	518	571	623				
	Amps	4.21	4.70	5.20				
	Lb/h	60.8	59.5	58.3				
-5	Btu/h	5290	4980	4670	4380			
	Watts	530	586	641	698			
	Amps	4.32	4.85	5.39	5.94			
	Lb/h	67.3	65.9	64.5	63.2			
0	Btu/h	5910	5570	5230	4910	4600		
	Watts	542	600	660	719	780		
	Amps	4.42	4.99	5.58	6.17	6.77		
	Lb/h	74.8	73.2	71.7	70.2	68.8		
5	Btu/h	6620	6240	5870	5510	5160		
	Watts	554	615	677	741	806		
	Amps	4.53	5.14	5.76	6.39	7.04		
	Lb/h	83.1	81.5	79.9	78.3	76.7		
10	Btu/h	7410	7000	6590	6200	5810	5430	5060
	Watts	567	630	695	762	831	900	971
	Amps	4.64	5.29	5.94	6.61	7.29	7.98	8.69
	Lb/h	92.5	90.8	89.0	87.3	85.6	84.0	82.6
15	Btu/h	8280	7830	7390	6960	6530	6110	5690
	Watts	580	645	713	783	855	929	1000
	Amps	4.75	5.43	6.12	6.82	7.53	8.26	9.00
	Lb/h	103	101	99.1	97.3	95.5	93.8	92.1
20	Btu/h	9230	8750	8270	7790	7320	6860	6400
	Watts	593	660	730	803	879	957	1040
	Amps	4.86	5.58	6.30	7.03	7.77	8.53	9.30
	Lb/h	114	112	110	108	106	104	103

25	Btu/h	10300	9750	9230	8710	8190	7680	7170
	Watts	606	675	747	823	902	983	1070
	Amps	4.98	5.72	6.47	7.23	8.00	8.78	9.58
	Lb/h	126	124	122	120	118	116	114
30	Btu/h	11400	10800	10300	9700	9140	8580	8020
	Watts	619	690	764	842	924	1010	1100
	Amps	5.10	5.87	6.64	7.43	8.22	9.03	9.85
	Lb/h	139	137	135	133	131	129	127
35	Btu/h	12600	12000	11400	10800	10200	9540	8940
	Watts	633	704	781	861	945	1030	1130
	Amps	5.22	6.01	6.81	7.61	8.43	9.26	10.1
	Lb/h	153	151	149	147	144	142	140
40	Btu/h	13900	13200	12600	11900	11300	10600	9920
	Watts	646	719	797	879	966	1060	1150
	Amps	5.34	6.15	6.97	7.80	8.64	9.49	10.4
	Lb/h	167	165	163	161	159	157	154
45	Btu/h	15300	14600	13900	13100	12400	11700	11000
	Watts	660	734	813	897	986	1080	1180
	Amps	5.47	6.30	7.13	7.98	8.83	9.70	10.6
	Lb/h	183	181	179	177	174	172	170
50	Btu/h	16700	16000	15200	14400	13700	12900	12100
	Watts	674	748	828	914	1010	1100	1200
	Amps	5.59	6.44	7.29	8.15	9.02	9.90	10.8
	Lb/h	199	197	195	193	190	188	186
55	Btu/h	18200	17400	16600	15800	15000	14100	13300
	Watts	688	762	843	930	1020	1120	1230
	Amps	5.72	6.58	7.44	8.31	9.20	10.1	11.0
	Lb/h	216	214	212	210	208	205	203

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.810909E+03	1.295947E+02	-1.995928E-01	8.193739E+01
C2	1.682061E+02	1.682008E+00	-4.460156E-02	1.600715E+00
C3	-3.602216E+01	4.334117E+00	6.099684E-02	1.653898E-02
C4	2.013337E+00	4.231274E-02	4.676032E-04	1.702722E-02
C5	-3.069948E-01	-3.080010E-02	8.398516E-04	1.343580E-03
C6	-2.200916E-02	1.268003E-02	-7.401504E-05	-1.892263E-03
C7	-1.894494E-04	-2.820393E-05	-1.962081E-07	-2.017503E-05
C8	-4.164595E-03	-4.559942E-04	-5.141069E-06	2.512713E-05
C9	-1.750959E-03	5.004929E-04	-2.327167E-07	-1.948247E-05
C10	2.452252E-04	-3.028216E-05	4.169989E-07	7.036727E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

RKA5512EXA

General Information

Model	RKA5512EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4090	3960					
	Watts	482	535					
	Amps	3.86	4.43					
	Lb/h	47.4	44.7					
-10	Btu/h	4600	4410	4230				
	Watts	500	556	613				
	Amps	4.02	4.62	5.21				
	Lb/h	52.5	49.9	47.2				
-5	Btu/h	5180	4950	4720	4480			
	Watts	516	576	635	695			
	Amps	4.17	4.80	5.42	6.04			
	Lb/h	58.6	56.0	53.3	50.6			
0	Btu/h	5840	5560	5280	5000	4720		
	Watts	531	593	657	720	784		
	Amps	4.32	4.97	5.61	6.26	6.91		
	Lb/h	65.6	63.0	60.4	57.7	55.0		
5	Btu/h	6580	6250	5920	5590	5260		
	Watts	544	610	676	743	810		
	Amps	4.46	5.13	5.80	6.48	7.15		
	Lb/h	73.5	71.0	68.4	65.8	63.1		
10	Btu/h	7390	7020	6640	6260	5880	5510	5130
	Watts	557	626	695	765	835	905	977
	Amps	4.59	5.29	5.98	6.68	7.38	8.08	8.78
	Lb/h	82.3	79.9	77.3	74.7	72.1	69.4	66.6
15	Btu/h	8290	7860	7440	7010	6580	6160	5730
	Watts	569	641	713	786	859	932	1010
	Amps	4.72	5.44	6.16	6.88	7.60	8.33	9.05
	Lb/h	92.2	89.7	87.2	84.6	82.0	79.4	76.7
20	Btu/h	9260	8780	8310	7840	7360	6890	6410
	Watts	581	655	730	806	882	958	1040
	Amps	4.84	5.58	6.33	7.07	7.82	8.57	9.32
	Lb/h	103	101	98.0	95.5	92.9	90.3	87.6

25	Btu/h	10300	9790	9260	8740	8220	7690	7170
	Watts	592	669	747	825	904	983	1060
	Amps	4.96	5.73	6.49	7.26	8.03	8.80	9.58
	Lb/h	115	112	110	107	105	102	99.5
30	Btu/h	11400	10900	10300	9720	9150	8580	8000
	Watts	603	683	763	844	926	1010	1090
	Amps	5.08	5.87	6.65	7.44	8.24	9.03	9.83
	Lb/h	128	125	123	120	118	115	112
35	Btu/h	12600	12000	11400	10800	10200	9540	8920
	Watts	614	697	780	863	947	1030	1120
	Amps	5.20	6.00	6.81	7.63	8.44	9.26	10.1
	Lb/h	141	139	136	134	131	129	126
40	Btu/h	13900	13300	12600	11900	11300	10600	9910
	Watts	626	710	796	882	969	1060	1140
	Amps	5.31	6.14	6.97	7.81	8.64	9.48	10.3
	Lb/h	156	154	151	149	146	143	141
45	Btu/h	15300	14600	13900	13100	12400	11700	11000
	Watts	637	725	812	901	990	1080	1170
	Amps	5.43	6.28	7.13	7.98	8.84	9.70	10.6
	Lb/h	172	170	167	164	162	159	157
50	Btu/h	16800	16000	15200	14400	13700	12900	12100
	Watts	650	739	829	920	1010	1100	1200
	Amps	5.55	6.42	7.29	8.16	9.04	9.92	10.8
	Lb/h	189	187	184	181	179	176	173
55	Btu/h	18300	17500	16600	15800	15000	14200	13400
	Watts	663	755	847	940	1030	1130	1220
	Amps	5.67	6.56	7.45	8.34	9.24	10.1	11.0
	Lb/h	207	205	202	199	197	194	191

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.074198E+03	3.065528E+01	-8.613803E-01	8.504165E+01
C2	2.174842E+02	-1.935044E+00	-9.450937E-03	1.470999E+00
C3	-2.785939E+01	6.300150E+00	6.496298E-02	-2.431766E-01
C4	1.585465E+00	-7.351072E-03	-6.080283E-05	2.048562E-02
C5	-9.826273E-01	5.708144E-02	4.567150E-04	-3.254587E-04
C6	2.410007E-04	-1.439925E-03	-4.724648E-06	1.067230E-04
C7	4.647203E-04	2.552001E-04	1.294485E-06	1.959312E-05
C8	-4.587688E-04	-1.824576E-04	-1.030044E-06	-2.166875E-05
C9	1.250817E-04	3.277082E-05	2.201016E-07	6.781037E-06
C10	-1.012232E-05	1.026445E-05	2.662052E-08	-1.381353E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature